

# DYNAFLEX® PE

Polyethylene Insulating Products



Yalıtımda  
**dinamik**®  
Çözüm

Dynaflex closed cell polyethylene insulation pipes and Rolls, is produced in accordance to the need for worldwide energy conservation, and fulfill the expectations of the engineers, contactors, installers and investors with Dinamik's 30 years of technical and business experience and excellent view of quality.



## Thermal Conductivity ( $\lambda$ )

$$(\lambda) \leq 0,040 \text{ W/m}^\circ\text{K}$$

Thermal conductivity is the most important characteristic at the insulation products. With low thermal conductivity of the air in the closed cell and the polyethylene; Dynaflex significantly reduces the heat transfer.

## Vapor permeability ( $\mu$ )

$$(\mu) \geq 5000$$

With its high density and closed cell construction Dynaflex insulation pipes and rolls shows high resistance to vapor transmissions in long term performance. With this characteristic Dynaflex stops condensation problem of the cooling lines.

## Fire Rating

E - TS EN 13501-1

Dynaflex closed cell polyethylene insulation products will not drip flaming particles, will not support fire and will not spread flame. Dynaflex insulation products can be safely use in residential and public buildings.





## Dynaflex Polyethylene Pipe

Dynaflex closed cell polyethylene pipes has best characteristic such as optimum density, ideal closed cell rate, high vapor permeability low thermal conductivity which are produced under the technology of extrusion method. Dynaflex pipes is produced from 10 mm up to 139 mm diameter and the thickness of 6, 10, 15, 20, 30 mm. Due to its high characteristics and very LOW COST, Dynaflex closed cell polyethylene insulation pipes is the ideal way of insulation for your cooling and heating lines.



## Dynaflex - AL Aluminum Coated Polyethylene Pipe



Dynaflex aluminum coated polyethylene pipes shows very high resistance to the negative weather conditions, wind, rain, and U.V. lights of the sun with its 55 micron thickness composite aluminum foil lamination. Dynaflex AL is the unique insulation product that can be used outdoors without any extra covering. Dynaflex AL has very high vapor permeability ( $\mu \geq 55100$ ) because of the aluminum foil lamination and can be used cooling line to stop condensation.

Dynaflex-AL has been given 1. prize for he insulation product of the year by Insulation product of the year by Insulation Magazine "YALITIM" is the biggest magazine for insulation market in Turkey.

Dynaflex-AL ensures the insulation characteristic of itself form U.V. lights, weather conditions for long term by its good and esthetic outlook.

## Polyethylene Pipe Dimensions and in Package Quantities



Steel Pipe	Plastic Pipe	Nominal Diameter	Pipe Wall Thickness				
			6 mm	10 mm	15 mm	20 mm	30 mm
inch	mm	mm	m/pk	m/pk	m/pk	m/pk	m/pk
1/2"	20	22	360	230	150	120	100
3/4"	25	28	260	180	130	100	66
1"	32	35	180	130	108	70	60
1 1/4"	40	42	150	100	80	64	50
1 1/2"	50	48	130	90	64	60	50
2"	63	60	100	60	48	44	40
2 1/2"	75	76	90	44	40	40	30
3"	90	89	-	30	30	28	-
4"	110	114	-	24	24	20	-
5"	140	-	-	-	-	20	-
6"	169	-	-	-	-	12	-
8"	219	-	-	-	-	10	-

### QUALITY



Dynaflex closed cell insulation pipes and rolls are produced in Dinamik's ISO 9001:2015 - OHSAS 18001:2007 and ISO 14001:2015 certificated plants and are controlled during the every production stages by laboratory and measuring devices. Dinamik Company pay very high attention to the quality and customer satisfaction form the production to delivery.

## DYNAFLEX Polyethylene Sheets and Rolls

Dynaflex polyethylene insulation sheets and rolls can be used very easily and safely on air ducts, pipes with the diameter high form 4” and large objects such as boilers. Dynaflex Sheets and Rolls is produced with the thickness of 6, 8, 10, 15, 20, 30 mm as self adhesive option and aluminum or metalized film laminated. With its optimum density and very low costs Dynaflex Sheets and Rolls can be used on your cooling lines to save energy.



### Dynaflex AL

Dynaflex AL is the unique insulation product because of the laminated aluminum foil. It has very high vapor permeability ( $\mu \geq 163000$ ).



### Dynaflex SA

Dynaflex SA polyethylene insulation sheet and rolls is produced as self adhesive (klebstoff) with its reinforced and acrylic adhesive. Thus you can save workmanship and time.



### Dynaflex AL-SA

Dynaflex AL SA is produced as self adhesive and aluminum foil coated. In addition to its technical characteristics Dynaflex AL SA has nice and good outlook.



### DYNAFLEX Polyethylene Rolls Diameter

Thickness(mm)	3	5	6	8	10	15	20	30	40	50
m <sup>2</sup> /Roll	100	60	60	50	40	30	20	15	10	8



## Polyethylene Rolls



Dynaflex polyethylene packaging rolls is produced as one layer from 0,7 mm to 10 and is produced multi layer from 10 mm to 100 mm. Dynaflex polythene packaging rolls are produced for almost every market such as electronics, medical devices, measuring devices etc. to protect the goods from shocks during the delivery and storage. It can be cut and formed very easily and protects the goods from smashing, cracking broking scratch etc.

Dynaflex under parquet rolls; is produced for under parquet application as naked or metalized film lamination. It does not get affected from humidity because of its closed cell structure thus it can lenth the life of the parquets.It minimize shock waves and smooths the surface and is produced from 1,2,3,4,5 mm thickness.

- Protects the goods from mechanical strokes and deformation.
- Lightweight, durable, splinterproof.
- Applied under parquet to smooth the surface.
- Excellent vibration attenuator
- Protects the material from water, dust and oil.

**DYNAFILL®**

**Polyethylene Round Profiles**



Dynaflex round polyethylene profiles is used to fill up expansions joints, gaps of sides of the windows and doors etc. It is produced from the diameter of 8 mm up to 100 mm. It minimizes the consumption of the filling material such as acrylic or polyurethane. I absorbs the thermal tensions and building movements.

**DYNATAPE®**

**Polyethylene Tapes**

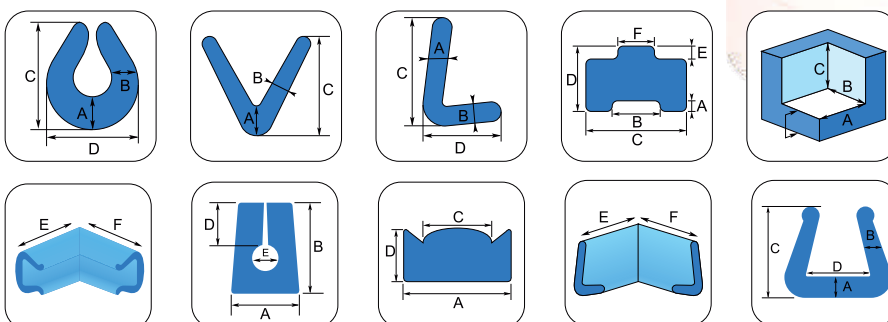


Dynaflex PE tape is the most ideal product to assemble the polyethylene pipes and rolls. It is produced with the width of 3 and 5 cm, thickness 3 mm and the length 15 meters.

**DYNAPROFIL®**

**Polyethylene Profiles and Packaging Products**

Dynaprofil is developed to protect the goods such as Furniture, Glass etc. during the delivery. It is produced in almost every shape like U, V, W, C, L, O and can be formed almost every shape and be easily cut. It does not include lead, mercury thus it can be recycled and is friendly to the nature.



## TECHNICAL CHARACTERISTICS

### Operating Temperatures



It is below the operating temperatures of Dynaflex pipes sheets and rolls.

Pipes : -45°C,+105°C  
Rolls : -80°C,+100°C

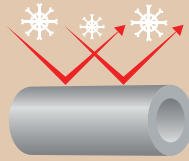
### Density:



Dynaflex closed cell insulation products is produced with optimum density where the maximum insulation specifications is achieved.

Pipes : 30-35 Kg/m<sup>3</sup>  
Rolls : 35-40 Kg/m<sup>3</sup>

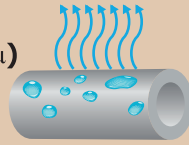
### Thermal Conductivity: (λ)



Dynaflex significantly reduces the heat transfer through the insulation, as air (closed cell) & polyethylene material are the poor conductors of heat.

λ = 0,049 W/m<sup>2</sup>K - 0°C  
λ = 0,054 W/m<sup>2</sup>K - 25°C

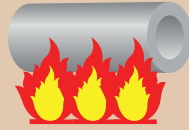
### Vapor Permability:(μ)



Dynaflex shows high resistance to vapor transmission because of its closed cell structure.

Pipes and Rolls μ ≥ 5000  
Al. Foil Coated Rolls μ ≥ 163000  
Al. Foil Coated Pipes μ ≥ 55100

### Fire Rating:



Dynaflex closed cell polyethylene insulation products will not drip flaming particles, will not support fire and will not spread flame.

E - TS EN 13501-1

### Noise Reduction: (Acoustic)



Dynaflex closed cell insulation products reduces the shock noise at very high rate.

23 d.B.A. (DIN 4109)

### Outdoor Resistance:



Dynaflex polyethylene insulation products has high resistance for outdoor conditions.

Pipes and rolls : Good  
Al. Coated Pipes and Rolls : During the working period of plumbing

### Environmental Effect:



Dynaflex polyethylene insulation products does not include lead, mercury CFC or HCFC gases thus it can be recycled and is friendly to the nature.



The technical values of Dynaflex-PE can be changed without previous notification by the purpose of recovery of the products

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